

WHAT IS CLAIMED IS:

1. A glass funnel for a cathode ray tube, which includes a body portion having an open end formed in a substantially rectangular shape, a neck portion for housing an electron gun, and a yoke portion connecting between the body portion and the neck portion wherein the yoke portion can have a deflection unit mounted on an outer side for deflecting electron beams irradiated from the electron gun, and further including an outwardly projecting bent portion provided along at least a part of an outer peripheral area, where the body portion intersects with a plane perpendicular to a bulb axis, and which includes intersecting points between the outer peripheral area and a plane containing a diagonal axis and the bulb axis, and that the bent portion is positioned so as to satisfy $L/D \leq 1/2$, wherein a distance between a boundary between the body portion and the yoke portion, and the bent portion, and a distance between the boundary between the body portion and the yoke portion, and the open end are L and D in terms of components in a relevant diagonal direction, respectively, on the plane containing the relevant diagonal axis and the bulb axis.
2. The glass funnel according to Claim 1, wherein a total length of the bent portion along the outer peripheral area was not less than 1/4 of a length of the outer peripheral area.
3. The glass funnel according to Claim 1, wherein that

the bent portion comprises a projected portion, and that the projected portion has a height of 5 to 50 mm on a plane containing a diagonal axis and the bulb axis.

4. The glass funnel according to Claim 1, wherein that
5 the bent portion comprises a stepped portion, and that the stepped portion has a height of 5 to 50 mm on a plane containing a diagonal axis and the bulb axis.

5. A cathode ray tube using a glass funnel for a cathode ray tube, which includes a body portion having an
10 open end formed in a substantially rectangular shape, a neck portion for housing an electron gun, and a yoke portion connecting between the body portion and the neck portion wherein the yoke portion can have a deflection unit mounted on an outer side for deflecting electron
15 beams irradiated from the electron gun, and further including an outwardly projecting bent portion provided along at least a part of an outer peripheral area, where the body portion intersects with a plane perpendicular to a bulb axis, and which includes intersecting points
20 between the outer peripheral area and a plane containing a diagonal axis and the bulb axis, and that the bent portion is positioned so as to satisfy $L/D \leq 1/2$, wherein a distance between a boundary between the body portion and the yoke portion, and the bent portion, and a distance
25 between the boundary between the body portion and the yoke portion, and the open end are L and D in terms of components in a relevant diagonal direction,

respectively, on the plane containing the relevant diagonal axis and the bulb axis.